

WHAT IS CLAIMED IS:

1. A chamber array arrangement for performing screening assays comprising a container having at least two chambers, wherein in a particular chamber at least one probe carrier is present, wherein the probe carrier is essentially freely movable in said particular chamber.
2. The chamber array arrangement according to claim 1, said chamber array arrangement further comprising a cover arranged on one or more of said at least two chambers.
3. The chamber array arrangement according to claim 2, said cover being made from a non-bonding material and allowing to retain said probe or probe pool essentially completely in the respective chamber.
4. The chamber array arrangement according to claim 3, said cover being a membrane having a pore size smaller than the size of the probe carrier means with the probe attached or of the free probe.
5. The chamber array arrangement according to claim 2, said cover being removable or penetrable.
6. The chamber array arrangement according to claim 1, said chamber array arrangement further comprising a carrier having a location adapted to receive said container.
7. A method of detecting a target in a sample comprising the steps of:
 - providing a sample of interest comprising a potential target compound;
 - providing a container having at least two chambers, wherein in a particular chamber at least one probe carrier is present, which carrier is essentially freely movable in said chamber;
 - introducing a sample containing a potential target compound into a chamber;
 - performing the assay; and
 - detecting, whether a binding of the target to the probe has occurred or not, and, if applicable, quantifying the binding event.
8. The method according to claim 7, wherein said step of introducing a sample into a chamber is performed by introducing the sample through a membrane or through a semi-permeable membrane.

9. The method according to claim 7, wherein said probe is selected from the group consisting of DNA, RNA, and proteins.